

Fig. 1

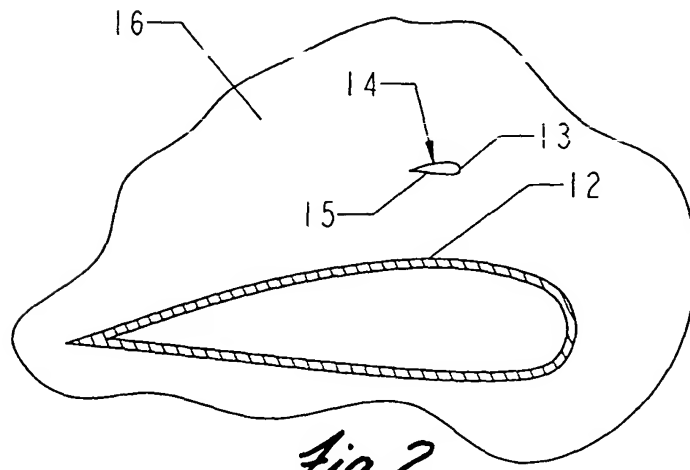


Fig. 2

Critical Temperature vs. AOA

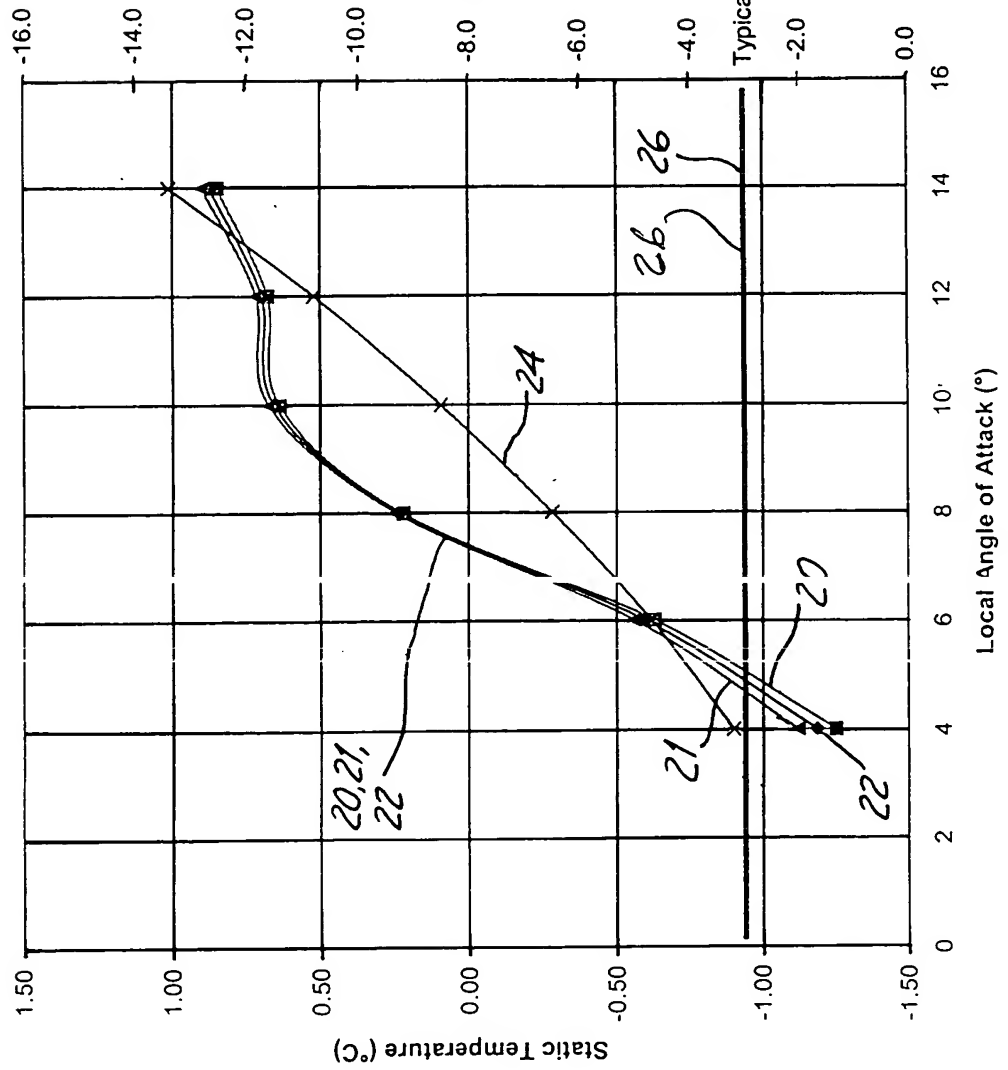
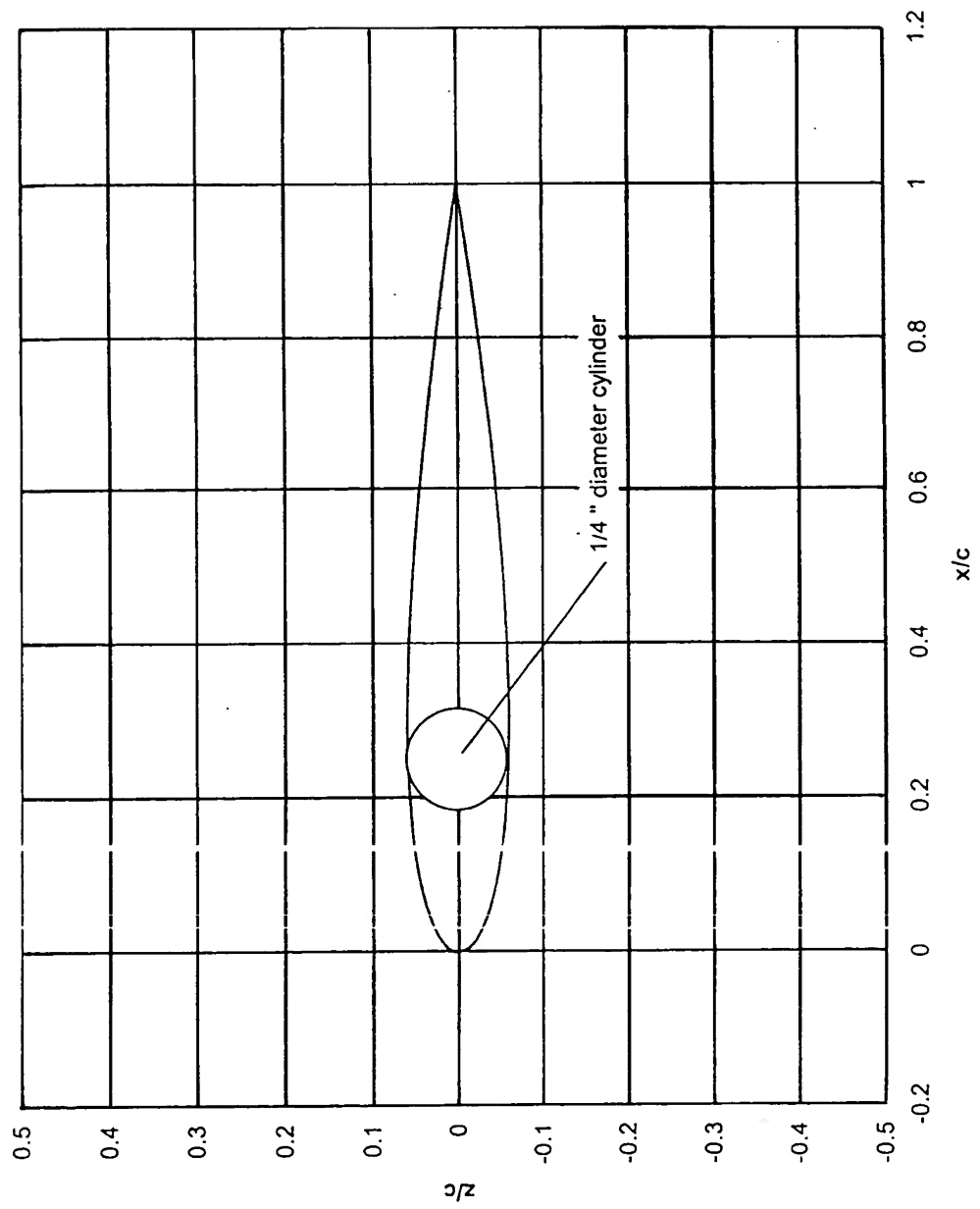


Fig. 3

- Ice forms below this temperature
- ◆ Average critical temperature
- ▲ Ice does not form above this temperature
- * Most negative Cp

Speed: 150 KTAS
 Altitude: 10,000 ft
 MVD: 20 microns
 LWC: 0.25 g/m³
 Whitcomb airfoil
 Chord length: 1.0 m
 LEWICE v1.6

Fig. 4



Ice formation on the small wing

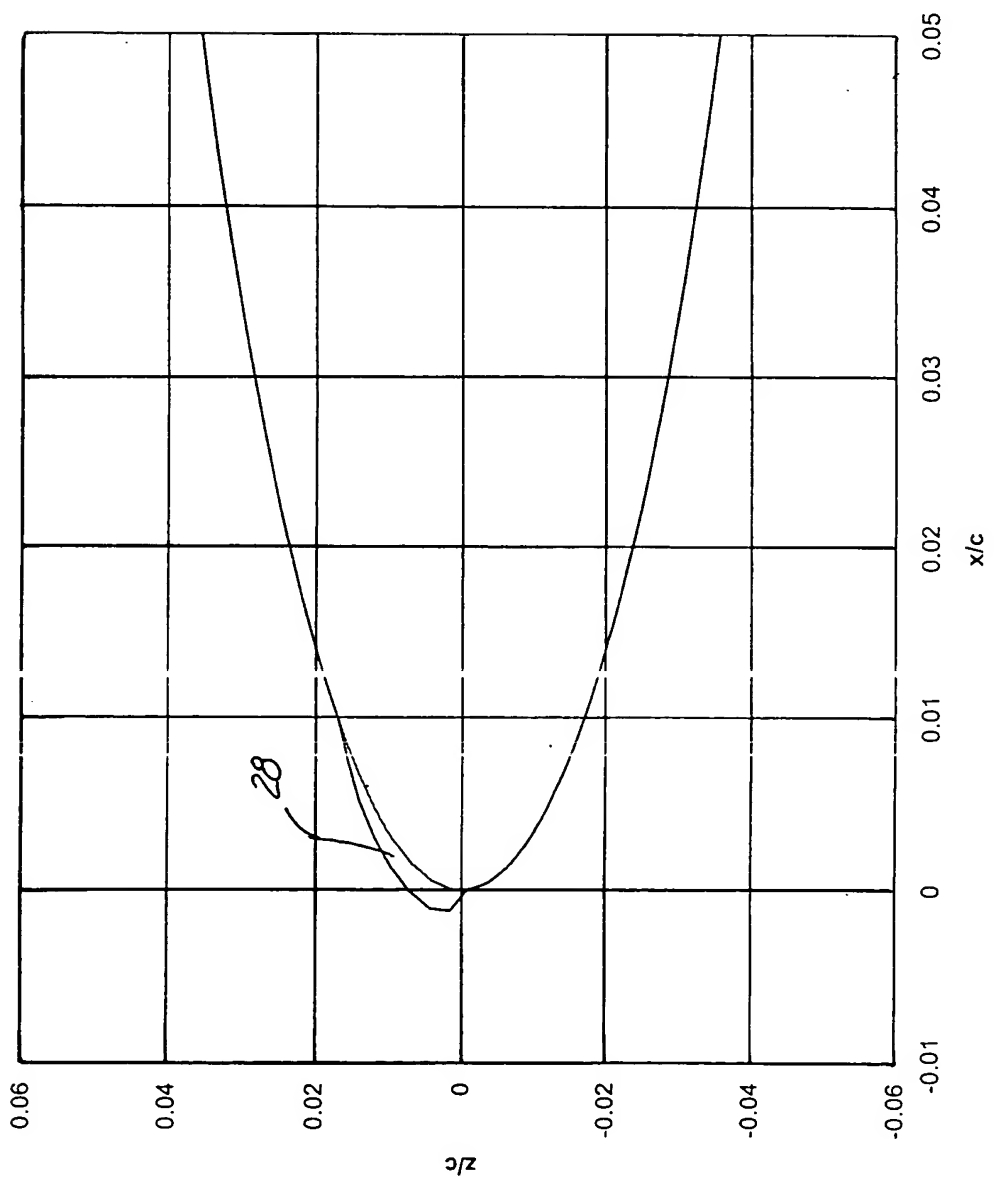


Fig. 5

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— Original surface
 - - - Ice formation after 10 seconds

Speed: 150 KTAS AOA = 12°
 Altitude: 10,000 ft
 MVD: 20 microns
 LWC: 0.25 g/m³
 Freestream Static Temp: 0.68°C
 Chord length: 2.08 inches
 LEWICE v1.6
 Small NACA0012 airfoil

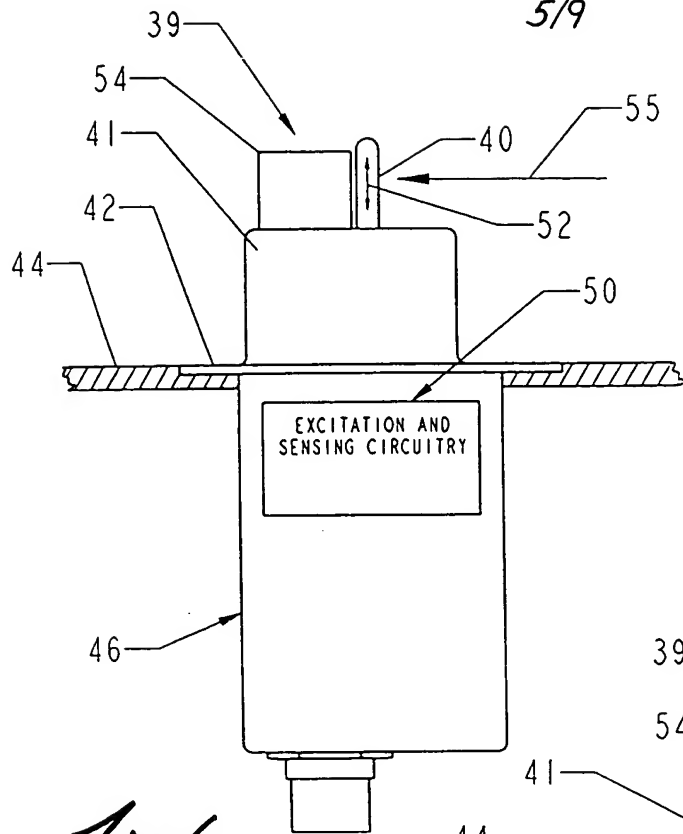


Fig. 6

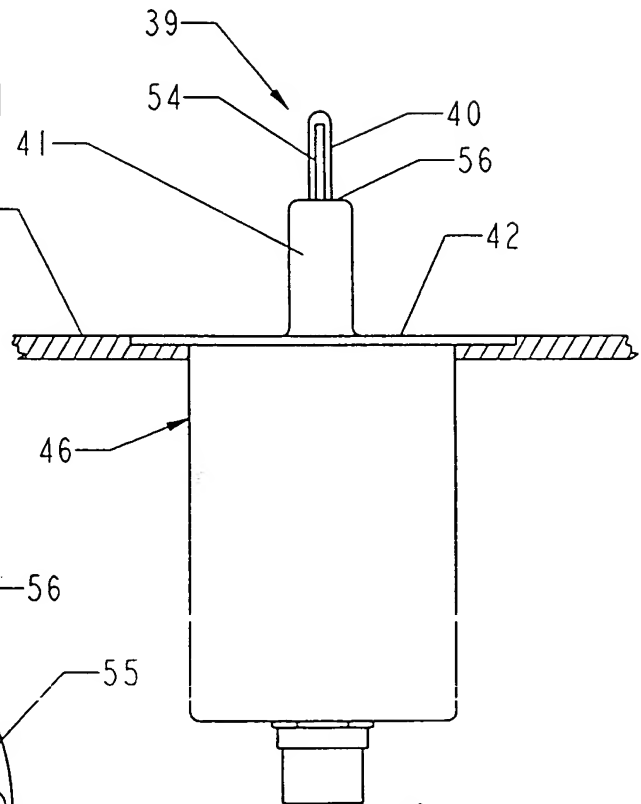


Fig. 7

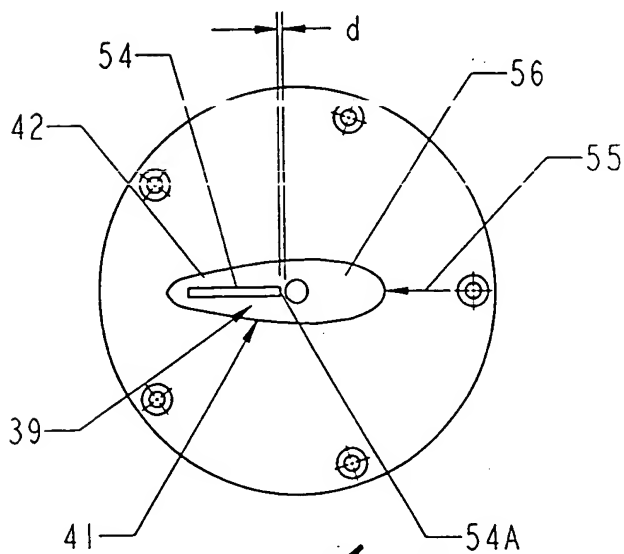


Fig. 8

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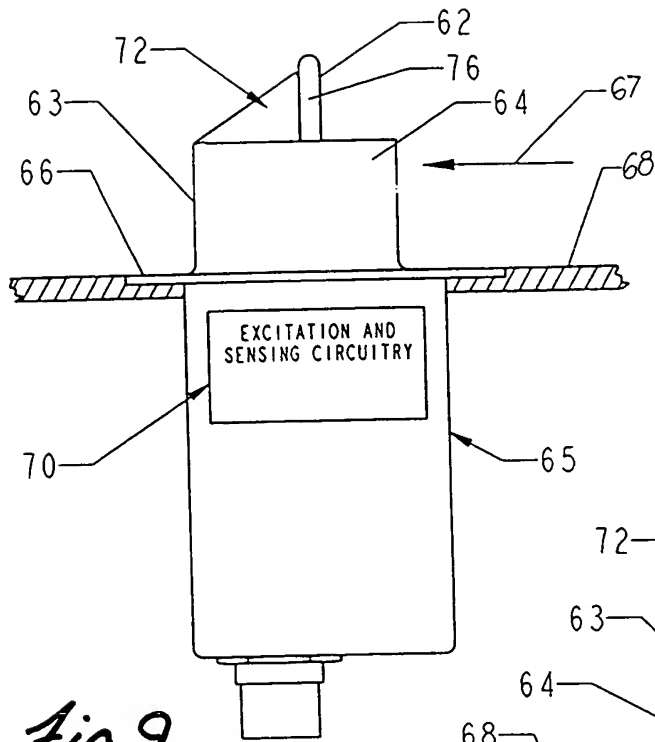


Fig. 9

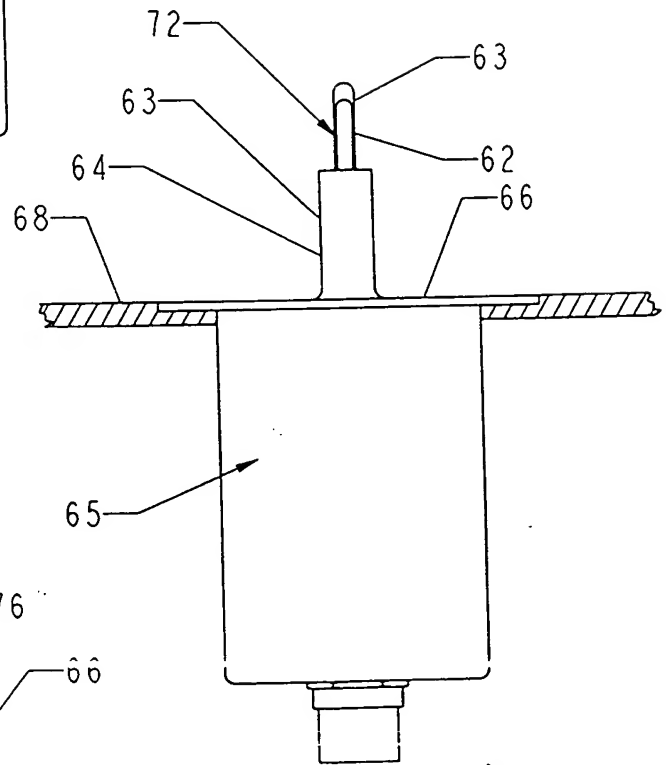


Fig. 10

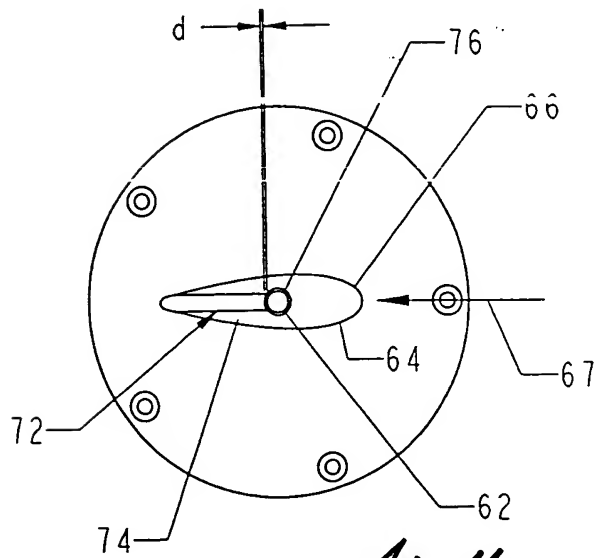


Fig. 11

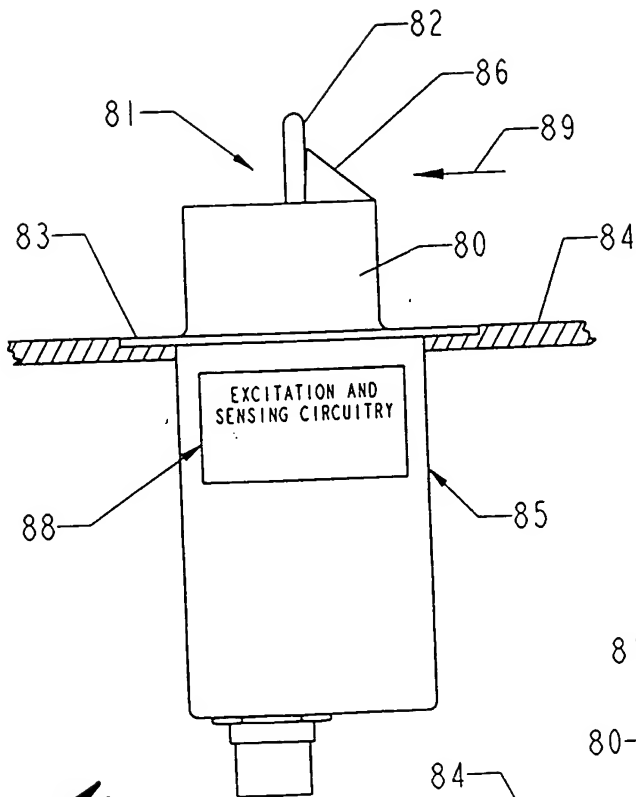


Fig. 12

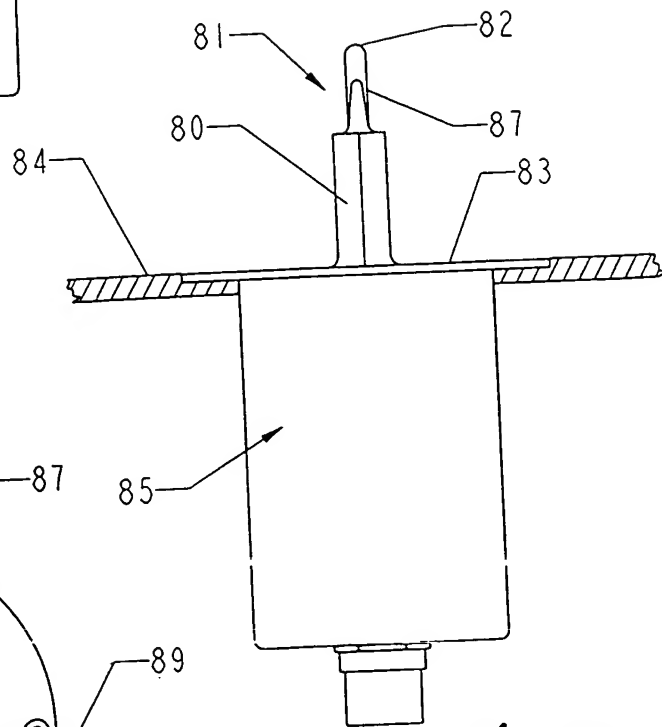


Fig. 13

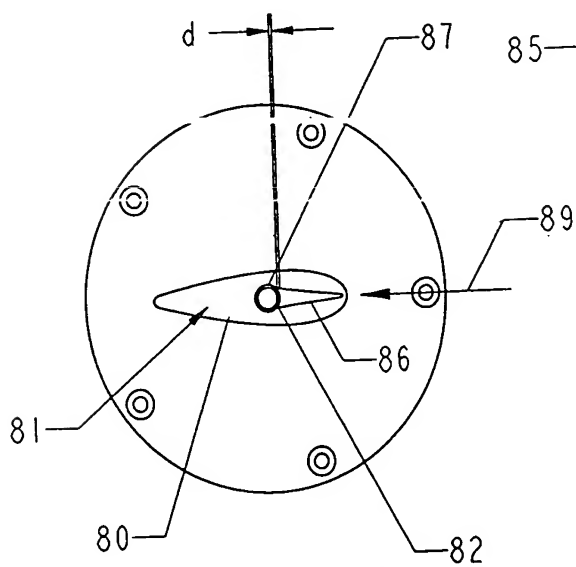
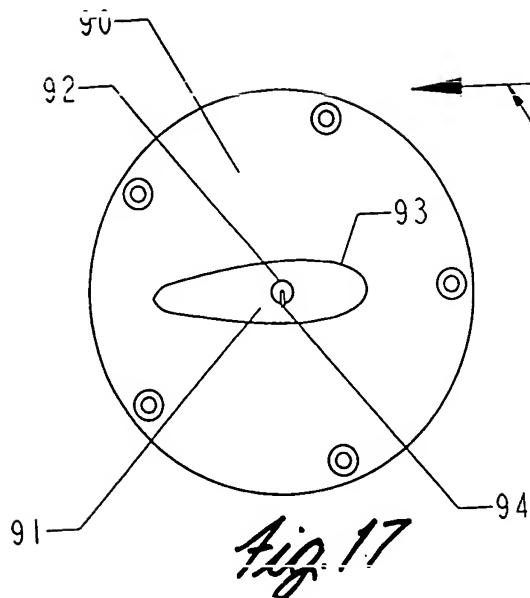
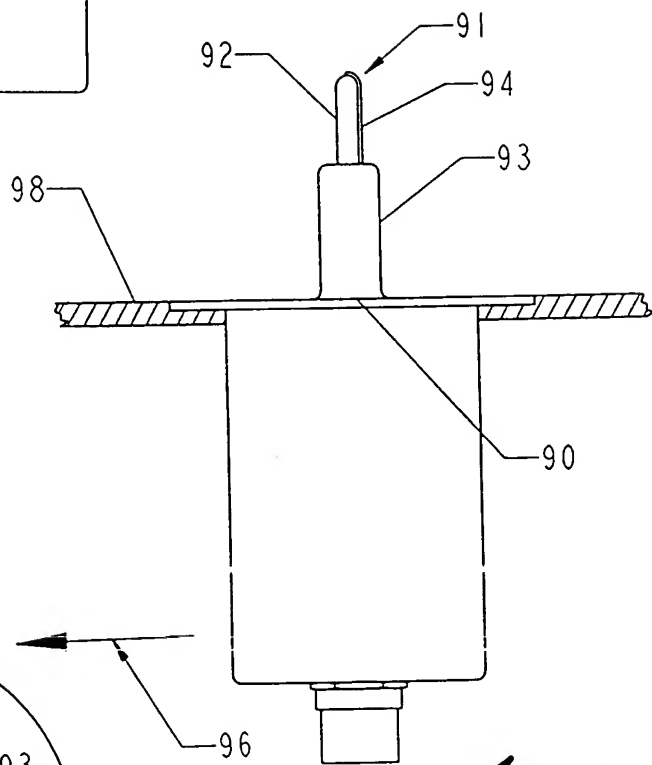
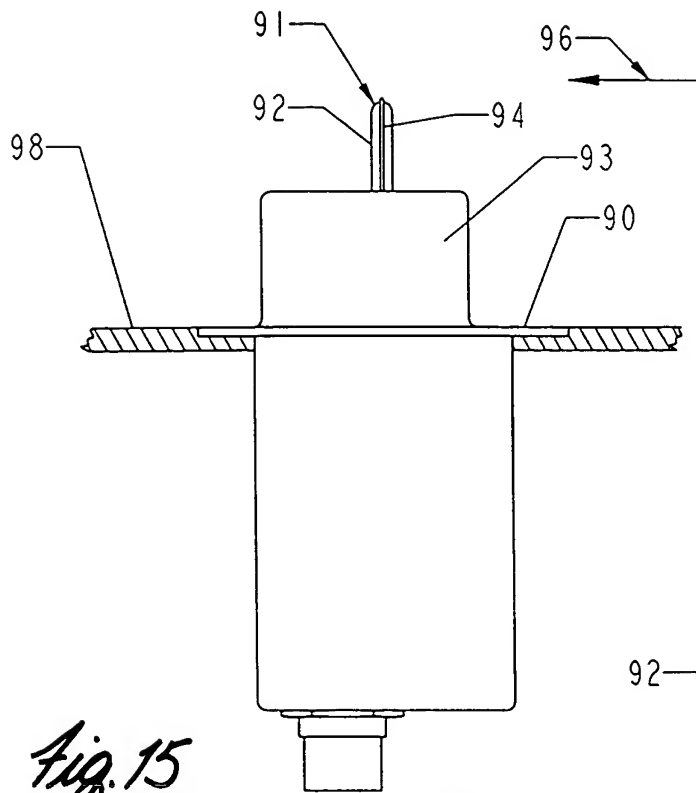


Fig. 14

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